

# WHAT'S YOUR NUMBER?

- LEVEL:

Grade 6 - 9
- SKILLS:

Place value to 100 000 000, probability
- PLAYERS:

2 - 4 or teacher vs. whole class
- EQUIPMENT:

One ten-sided (0-9) die, paper, pencil
- GETTING STARTED:

The goal of the game is to create the largest number possible. One player is selected to be the roller for the round. Each player creates their gameboard as follows:

Hundred Millions 100 000 000	Ten Millions 10 000 000	Millions 1 000 000	Hundred Thousands 100 000	Ten Thousands 10 000	Thousands 1 000	Hundreds 100	Tens 10	Ones 1

The selected player begins by rolling the die. All players must write this number down and may choose any place value position on their gameboard. Numbers cannot be erased once placed.

Play continues by rolling out eight more numbers to complete the round. When all spaces are filled in, players compare numbers. The player(s) with the greatest number scores 1 point.

A new round begins by selecting a new roller. Play continues for a set period of time. The player with the most points is the winner.

- THOUGHT PROVOKERS:

Have students play ten rounds with a 100 000 000 gameboard. Answer the following questions:
1. After ten rounds you will have rolled 90 times. Graph how many times you rolled each number. Were the rolls evenly distributed? Explain.

- | Your Number | Greatest Possible | Difference |
|-------------|-------------------|------------|
|             |                   |            |

- What's my Number?

9/10

	100 M	10 M	M	100 Th	10 Th	Th	100's	10's	1's	
	9	9	9	2	3	3	0	4	2	Lane Wins
	0	4	4	6	6	3	5	4	0	I Won!
	9	8	7	8	6	4	5	2	4	Mike Wins
	9	5	7	7	7	5	5	5	0	I Won!
	9	8	8	7	6	7	5	0	0	I Won!
	8	8	7	7	7	6	8	2	7	Lane Wins!
	9	8	7	9	5	4	0	0	1	Lane Wins
	9	9	7	5	7	6	5	4	5	I Won!
	9	5	7	6	5	0	1	4	0	I Won!
	9	8	2	7	6	6	0	4	1	I Won!

0	1	2	3	4	5	6	7	8	9

## Questions ?

1. They were all within 8-11 except for 1, 2, and 3.

